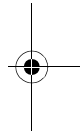
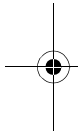


**RadioShack®**

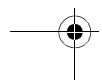
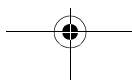
[www.radioshack.com](http://www.radioshack.com)<sup>SM</sup>

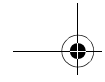
# **TRC-511 40-Channel Mini-Mobile CB Radio**

## **with Channel 9/19 Priority Switch**



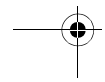
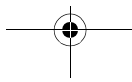
**Owner's Manual**  
Please read before using this equipment.





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## □ Features

Your RadioShack 40-Channel Mini-Mobile CB Radio is a great way to communicate with other CB radio operators. Because of its convenient compact size, you can use it almost anywhere. You can mount it in a vehicle for mobile use, or in your home or office for use as a base station.

Your CB has these advanced features.

**Emergency Channel Switch** — lets you quickly switch to channel 9 or 19 to monitor or report emergency situations.

**TX (Transmit) and RX (Receive) Indicators** — light to show when the CB is transmitting or receiving.

**Full Legal Power** — gives you the full range of CB channels with the maximum allowed transmit power.

**Up/Down Channel Selector** — lets you easily select a channel with the press of a button.

**Adjustable Squelch** — helps to eliminate noise between transmissions.

**Automatic Noise Limiter (ANL) Circuit** — reduces impulse-type noise during reception.

**5-Pin DIN Mic Connector** — uses five prongs to reinforce a clear connection between the mic and the receiver.

**Automatic Modulation** — prevents the transmitter signal from over-modulating and distorting.

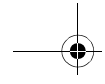
**(PLL) Frequency Synthesizer** — provides highly accurate and stable tuning.

**Crystal-Controlled Digital Tuning** — provides precise transmission tuning capability when selecting a channel.

**Two Ceramic Filters** — provide superior channel selectivity and prevent adjacent channel interference.

**Universal Mounting Bracket** — lets you mount your CB securely in your vehicle, or on a table or shelf in your home or office.

**External Antenna Jack** — lets you attach an optional antenna to your CB radio for increased range.



## FCC INFORMATION

The Federal Communications Commission (FCC) does not require you to have a license to operate this CB radio. However, you must know Part 95 of *FCC Rules*. These rules apply to the operation of a Class D CB. We have provided a copy of these regulations with your CB radio.

**Warning:** Do not open your CB radio to make any internal adjustments. A CB radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the unit to exceed these limitations.

To be safe and sure:

- never open your CB radio's cases.
- never change or replace anything in your CB radio.

Your CB radio might cause TV or radio interference even when it is operating properly. To determine whether your CB radio is causing the interference, turn off your CB radio. If the interference goes away, your CB is causing it. Try to eliminate the interference by:

- moving your CB radio away from the TV or radio
- contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your CB radio.

This device complies with Part 15 of *FCC Rules*. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

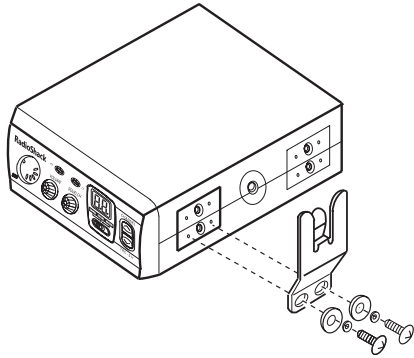
## □ Installation

### MOUNTING THE MICROPHONE HOLDER

You can mount the microphone holder on either side of the CB or at another location near your receiver.

**Warning:** Do not mount the CB microphone holder where it could damage or interfere with the operation of any passive restraint safety device (an air bag or seat belt).

To mount the holder to either side of the CB, use the two supplied  $\frac{1}{8}$ -inch (3-mm) tapered-tip screws, plain washers, and spring washers (as shown) to secure the holder.

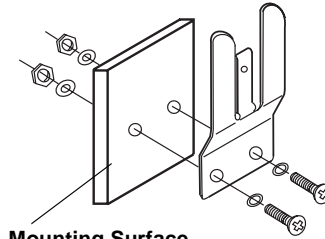


To mount the holder near the receiver in another location in your vehicle (such as a dashboard), or somewhere in your home or office, such as a nearby wall, follow these steps.

1. Using the holder as a template, mark the positions for the screw holes at the desired location.
2. At each marked position, drill a pilot hole slightly smaller than the mounting screws.

**Caution:** Be careful not to drill into anything behind the mounting surface.

3. Mount the holder using the machine screws, spring washers, plain washers and nuts.



**Note:** If you cannot reach behind the mounting surface to attach the nuts to the machine screws, use the two supplied  $\frac{1}{8}$ -inch (3-mm) tapered-tip screws and plain washers.

### MOUNTING THE CB

The most common mounting location for this CB is under a vehicle's dashboard. However, if you use the CB as a base station in your home or office, you can place it on a desk, shelf, or table (see "Using the CB as a Base Station" on Page 7).

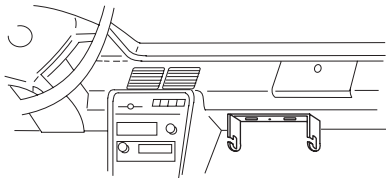
If you are mounting the CB in a vehicle, choose a location where:

- you can easily reach the CB
- wires and cables are clear of the vehicle's pedals and other moving parts
- the CB is not directly in front of heating vents
- all wires and cables can reach their connection point

**Warning:** If you use the CB in a vehicle, mount it securely to avoid damage to the CB or vehicle or injury to passengers.

Follow these steps to mount the CB using the supplied hardware.

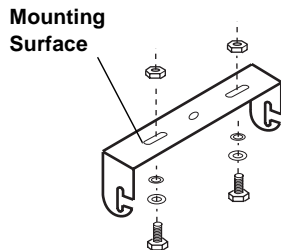
1. Using the mounting bracket as a template, mark the positions for the screw holes on the mounting surface.



2. In each marked location, drill a pilot hole slightly smaller than the two 1/5-inch (5-mm) mounting screws.

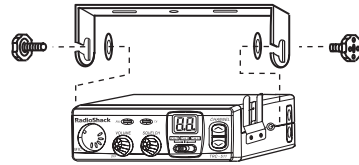
**Caution:** Be careful not to drill into objects behind the mounting surface.

3. Mount the bracket to the mounting surface with the 1/5-inch (5-mm) mounting screws, spring washers, plain washers, and nuts.



**Note:** If you cannot reach behind the mounting surface to attach the nuts on the bolts, use the 1/5-inch (5-mm) tapered-tip screws and plain washers to secure the bracket.

4. Attach the CB to the mounting bracket using the two rubber washers and mounting knobs.



## CONNECTING AN ANTENNA

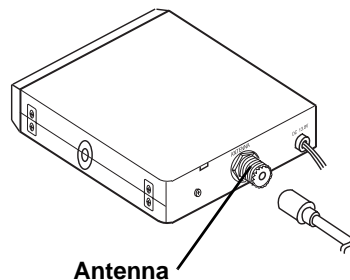
There are many different types of antennas for mobile CBs, each with its own benefits. You can choose one that best fits your needs, available at your local RadioShack store.

**Note:** If you are using this CB as a base station, see "Using the CB as a Base Station" on Page 7.

When you choose an antenna, keep in mind that, for the best performance, you should mount the antenna:

- as high as possible on your vehicle, home or building
- as far as possible from sources of electrical noise
- as vertically as possible

Once you choose an antenna, follow its mounting instructions. Then route the cable to the CB and connect the cable to **ANTENNA** on the back of the CB.



**Cautions:**

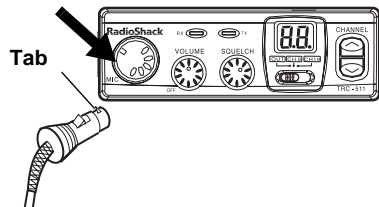
- Avoid routing the cable next to sharp edges or moving parts which might damage the cable.
- Do not run the cable next to power cables or other radio antenna cables.
- Do not run the cable through a vehicle's engine compartment or other areas that produce extreme heat.

To take advantage of your radio's maximum range, adjust the antenna's Standing Wave Ratio (SWR) using an SWR meter, available at your local RadioShack store.

Follow the instructions supplied with the SWR meter and antenna to adjust your antenna's SWR to the lowest possible value. SWR values of 2.0:1 are generally acceptable, with readings of 1.5:1 or lower being more desirable.

**CONNECTING THE MICROPHONE**

1. Press the plastic tab on the supplied microphone's plug and align the 5-pin DIN microphone plug with the corresponding pin holes in the CB's MIC jack. Then push the plug into the jack.



2. Slide the microphone onto the microphone holder.

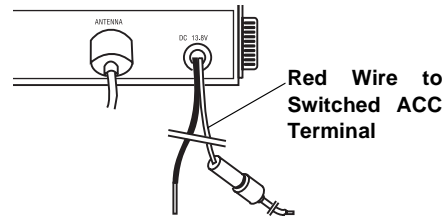
To disconnect the microphone from the CB, press the plastic tab on the side of the plug, then pull out the plug.

**Caution:** Never pull on the microphone cable.

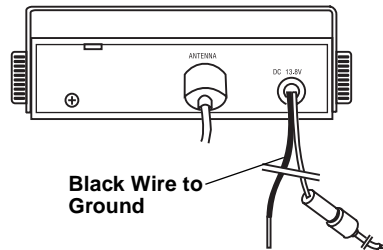
**USING VEHICLE BATTERY POWER**

Follow these steps to connect the CB to vehicle battery power.

1. Connect the red wire (with in-line fuse holder) to a point in your vehicle's fuse block that has power only when the ignition is in the ACC or ON position.



2. Connect the black wire to a metal part of the vehicle's frame (chassis ground).



**Caution:** Do not connect the black wire to a non-metallic (plastic) part, or to any part insulated from the vehicle's chassis by a non-metallic part.

**USING THE CB AS A BASE STATION**

Although this CB radio is designed mainly for mobile use, you can also use it as a base station with an AC power source. For base station installation, you need these items:

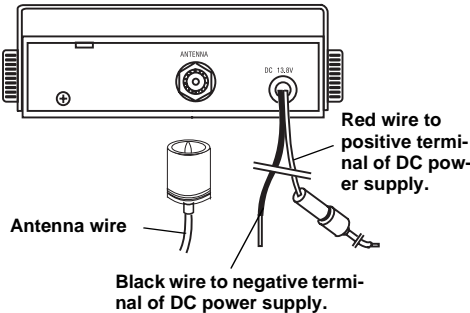
- a 13.8V DC power supply that supplies at least 1.5 amps (available from RadioShack)

**Caution:** Most 13.8V DC power supplies plug into a standard AC outlet to produce DC power. Before connecting your CB to a 13.8V DC power supply, read and follow the instructions included with the power supply.

- base station antenna (available from RadioShack)
- coaxial antenna cable and connector (available from RadioShack)

**Warning:** Use extreme caution when you install or remove a base station CB antenna. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches the power line, contact with the antenna, mast, cable or guy wires can cause electrocution and death. Call the power company to remove the antenna. Do not attempt to remove it yourself!

Follow these steps to install the CB as a base station.



1. Mount the base station antenna as described in its owner's manual.
2. Connect the antenna to **ANTENNA**.
3. Connect the CB's black power wire to the negative (-) terminal on the DC power supply.

4. Connect the CB's red wire to the positive (+) terminal on the DC power supply.
5. Connect the DC power supply to a standard AC outlet.

**Cautions:**

- To comply with FCC RF exposure compliance requirements, maintain a distance of at least 20 cm between this device's antenna and all persons.
- To prevent damage to the CB, be sure you connect an antenna and the microphone before you use the CB.

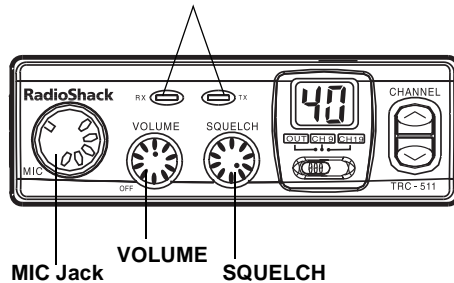
**Note:** Installation instructions are for satisfying FCC RF exposure compliance.





## □ Operation

Before you use your CB, you should know how to use it effectively and courteously. "Operational Hints" on Page 10 contains information that will help you get more enjoyment from your CB.

RX and TX Indicators



## RECEIVING TRANSMISSIONS AND ADJUSTING SQUELCH

1. Turn **SQUELCH** fully counterclockwise.
2. Turn on the CB by turning **VOLUME** clockwise until it clicks. The channel display lights and the channel number appears.
3. Set **OUT CH9 CH19** to **OUT**, press  or  on the base to select the desired channel (other than an emergency channel). The green RX indicator lights when the CB is receiving transmissions.
4. Adjust **VOLUME** to the desired listening level.
5. To cut out background noise between transmissions, wait until there is no signal, then slowly turn **SQUELCH** clockwise until the background noise stops and the RX indicator turns off.

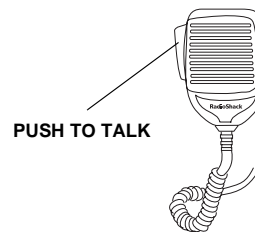
**Note:** To receive very weak signals, turn **SQUELCH** counterclockwise. You hear noise between transmissions, but you also hear weak transmissions.

6. To turn off the CB, turn **VOLUME** counterclockwise until you hear it click. The channel display turns off.

## TRANSMITTING

**Note:** We recommend you try receiving before you transmit.

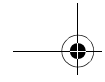
1. Follow Steps 1–5 in "Receiving Transmissions and Adjusting Squelch".
2. To transmit, press **PUSH TO TALK** on the microphone. The red TX indicator lights. Hold the microphone 2–3 inches from your mouth and speak in a normal tone of voice.



3. To turn off the CB, turn **VOLUME** counterclockwise until you hear it click. The channel display turns off.

## SELECTING AN EMERGENCY CHANNEL

**Important:** Channel 9 and channel 19 are reserved for motorist assistance and for reporting emergency information about accidents, hazardous road conditions, and so on. Always give emergency messages priority.



To select an emergency channel (channel 9 or 19), set **OUT CH9 CH19** to **CH9** or **CH19**. The selected channel number flashes.

To switch back to a non-emergency channel, set **OUT CH9 CH19** to **OUT**. The previously selected channel number appears.



## **Operational Hints**

Like most activities, CB radio has its customs and courtesies. The following tips will help you get the most enjoyment from your CB.

assistance in locating destinations. A CB radio is also good company on those “long hauls.”

### **COMMON USES FOR A CB**

- On construction crews, a CB radio quickly pays for itself when you are calling for additional materials or coordinating the activities of different work crews.

#### **Personal Uses**

- Keep in touch with home while driving to work, to the store, or to a social activity. Let your family know you are tied up in traffic, or that you will stop by the store on the way home.
- If you are a two-car (or more) family, CB radios are great for communicating with family members while they are in their cars.
- Contact friends or neighbors — find out “what’s happening” or plan a get-together.
- Ever have car trouble or run out of gas on the highway? What an assurance it is to be able to radio for assistance!
- Camping, fishing, and other sports are more fun with a CB radio. Locate a buddy or find out “what’s cooking” back at camp.

### **TRANSMISSION COURTESY**

Please follow these guidelines of radio courtesy when using your CB.

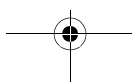
- Wait for a pause in someone else’s transmission before you ask for a break.
- If you do not receive an answer to your call after a second attempt, sign off and wait several minutes before trying again.
- Do not hold down **PUSH TO TALK** when you are not talking. (This is called *dead keying*.)
- Assist callers with directions, information about road conditions, and any other reasonable requests.

#### **Business Uses**

- For security officers, a CB is more than a convenience — it is a must for both safety and efficiency.
- Truck drivers and delivery personnel can learn road and traffic conditions and get

### **USING COMMON 10-CODES**

Citizen’s band operators and CB radio users have largely adopted the 10-codes for standard questions and answers. These codes permit faster communication and better intelligibility in noisy areas.



This table lists codes adopted by the Associated Public Safety Communications Officers (APCO).

| Code  | Meaning                          |
|-------|----------------------------------|
| 10-1  | Your signal is bad.              |
| 10-2  | Your signal is good.             |
| 10-3  | Stop transmitting.               |
| 10-4  | Message received and understood. |
| 10-5  | Relay information to _____.      |
| 10-6  | I am busy or are you busy?       |
| 10-7  | Out of service.                  |
| 10-8  | In service.                      |
| 10-9  | Repeat last message.             |
| 10-10 | Negative (NO).                   |
| 10-11 | _____ in service.                |
| 10-12 | Stand by.                        |
| 10-13 | Report road/weather conditions.  |
| 10-14 | Information.                     |
| 10-15 | Message delivered.               |
| 10-16 | Reply to message.                |
| 10-17 | En route.                        |
| 10-18 | Urgent.                          |
| 10-19 | Contact _____.                   |
| 10-20 | What is your location?           |
| 10-21 | Call _____ by telephone.         |
| 10-22 | Cancel last message.             |
| 10-23 | Arrived at the scene.            |

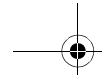
| Code  | Meaning                               |
|-------|---------------------------------------|
| 10-24 | Assignment complete.                  |
| 10-25 | Meet _____.                           |
| 10-26 | Estimated time of arrival is _____.   |
| 10-30 | Use caution.                          |
| 10-31 | Pick up.                              |
| 10-33 | Emergency traffic. Clear the channel. |
| 10-34 | What time is it?                      |
| 10-41 | Switch to Channel xx.                 |
| 10-62 | Cannot understand.                    |

**Note:** Although this table lists the 10-codes' meanings in the form of a statement, they can also be phrased as questions (10-6: Are you busy?, 10-20: What is your location?).

## MAXIMUM RANGE

The maximum range and quality of CB radio transmissions vary depending on the following conditions:

- the type and quality of antenna used
- the height of the antenna's mounting location — the higher the antenna, the better the signal's range
- the surrounding terrain — mountains and tall buildings limit the range
- weather conditions
- the number of nearby radios operating on the same channel
- standing wave ratio (SWR) between the antenna and the CB



**Note:** Your CB radio's transmission range is generally line-of-sight.

Your local RadioShack store has a wide selection of noise-suppression accessories.

## REDUCING NOISE

**Note:** Operation instructions are for satisfying FCC RF exposure requirements.

Because your CB is exceptionally quiet, any noise you hear is probably from an external source in your vehicle such as an alternator, another radio, or spark plugs.

The transceiver uses an ANL (Automatic Noise Limiter) circuit to reduce noise. However, if possible, try to eliminate the noise by finding its source.

You can determine the noise's source by turning off the engine and operating the CB with your vehicle's ignition set to ACC (or ON). If the noise is reduced, the problem is in your vehicle's ignition or electrical system.

Here are a few hints to help you reduce or eliminate such noise.

- Make all CB power and antenna wires as short as possible.
- Route the power wires away from the antenna wires.
- Be sure that the chassis ground connection is secure.
- Replace old ignition wires with new, high-voltage, noise suppression wires.
- Install noise suppressors on your spark plugs, or install new spark plugs that have built-in noise suppressors.
- If problems persist, check your alternator/generator and regulator gauges. You can reduce the noise from these sources by using bypass capacitors at the various output voltage points.

## □ Troubleshooting

If your CB is not working as it should, follow these suggestions to see if you can eliminate the problem. If you cannot, take the CB to your local RadioShack store for assistance.

| Symptom                      | Solutions  |
|------------------------------|--|
| CB has trouble receiving.    | Rotate <b>VOLUME</b> clockwise so power is on.   |
|                              | Make sure that the mic is connected and that the other connections are secure.                 |
|                              | Make sure that the antenna is connected and that the other connections are secure.             |
|                              | Check <b>SQUELCH</b> and adjust as needed.   |
|                              | Switch to an active channel.   |
|                              | Adjust <b>VOLUME</b> .   |
| CB has trouble transmitting. | Rotate <b>VOLUME</b> clockwise so power is on.   |
|                              | Make sure that the antenna is connected and that the other connections are secure.             |
|                              | Make sure that all connections are free of corrosion. Clean and tighten, as necessary.         |
|                              | Make sure the mic connector is not loose. Firmly press the connector into the <b>MIC</b> jack. |
|                              | Switch to an active channel.   |
|                              | Make sure that <b>PUSH TO TALK</b> is fully pressed.   |
| Radio does not work at all.  | Make sure that the CB is connected to power and that all connections are secure.               |
|                              | Make sure that the mic is securely connected.  |
|                              | Make sure that the antenna is securely connected.  |
|                              | Check the fuse and replace it, if necessary. See "Replacing the Fuse" on Page 14.              |
| Cannot select a channel.     | Set <b>OUT CH9 CH19</b> to <b>OUT</b> . Release <b>PUSH TO TALK</b> .                          |

## □ **Care and Maintenance**

To enjoy your RadioShack 40-Channel Mini-Mobile CB Radio for a long time:

- Keep the CB dry. If it gets wet, wipe it dry immediately.
- Use and store the CB only in normal temperature environments.
- Handle the CB gently and carefully. Do not drop it.
- Keep the CB away from dust and dirt.
- Wipe the CB with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the CB's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your CB is not performing as it should, take it to your local RadioShack store for assistance.

### **REPLACING THE FUSE**

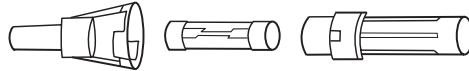
The CB's 2-A in-line fuse helps protect your CB (and vehicle) from power surges and short circuits. Replace a blown fuse with a 2-A, slow-blow glass fuse, available at your local RadioShack store.

**Caution:** Do not use a fuse with ratings other than those specified here. Doing so might damage your CB.

Follow these steps to check and replace the fuse.

1. Make sure the power source and CB are both off.

2. Hold the fuse holder by both ends, push the ends together, twist one end counterclockwise, then pull them apart.



3. Remove the old fuse and inspect its condition. If it is not blown, reinsert it. If it is blown, insert a new one of the same type and rating.
4. Push the fuse holder ends together and twist one end clockwise.

## □ Specifications

### Receiver

|                                    |   |
|------------------------------------|---|
| Frequency Coverage .....           | All 40 channels (class D) 26.965–27.405 MHz |
| Sensitivity .....                  | 0.5 uV or better for 10 dB S/N              |
| Squelch Sensitivity .....          | From 0.5 uV to 1 mV adjustable (nominal)    |
| Frequency Response .....           | –6 dB 450 Hz–2.5 kHz                        |
| Adjacent Channel Selectivity ..... | 45 dB at 10 kHz                             |
| Audio Output Power .....           | 1 W   |
| Cross Modulation .....             | 50 dB                                       |

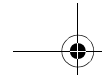
### Transmitter

|                             |   |
|-----------------------------|---|
| Frequency Coverage .....    | All 40 channels (class D) 26.965–27.405 MHz               |
| Frequency Tolerance .....   | ±100 Hz (nominal)   |
| Output Power .....          | 3.6 W (nominal)   |
| Modulation Type .....       | A3  |
| Antenna Impedance .....     | 50Ω   |
| Spurious Emission .....     | –67 dB or better  |
| Modulation Capability ..... | 90%   |
| Current Drain .....         | 1.1 Amps with no modulation; 1.5 Amps with 80% modulation |
| Power Requirements .....    | 13.8V DC, negative ground                                 |

### General

|                                |  |
|--------------------------------|--|
| Dimensions .....               | $5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{3}{8}$ in<br>(150 × 108 × 35 mm) |
| Weight (with microphone) ..... | 15.4 oz<br>(437 g)   |

Specifications are typical, individual units might vary. Specifications are subject to change and improvement without notice.



### Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

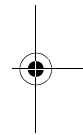
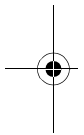
This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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